

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number  
**WO 2005/039847 A1**

(51) International Patent Classification<sup>7</sup>: **B29B 7/20**,  
B01F 7/08, B29C 47/40

(21) International Application Number:  
PCT/IT2003/000664

(22) International Filing Date: 28 October 2003 (28.10.2003)

(25) Filing Language: Italian

(26) Publication Language: English

(71) Applicant (for all designated States except US):  
**COLMEC S.P.A.** [IT/IT]; Via delle Orchidee 2, I-20020  
Vanzaghello (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **COLOMBO, Ubaldo**  
[IT/IT]; Via P. Mascagni 5, I-21052 Busto Arsizio (IT).

(74) Agents: **FAGGIONI, Carlo, Maria** et al.; Consulenza  
Brevetti S.N.C., Via S. Agnese, 12, I-20123 Milano (IT).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,  
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,  
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

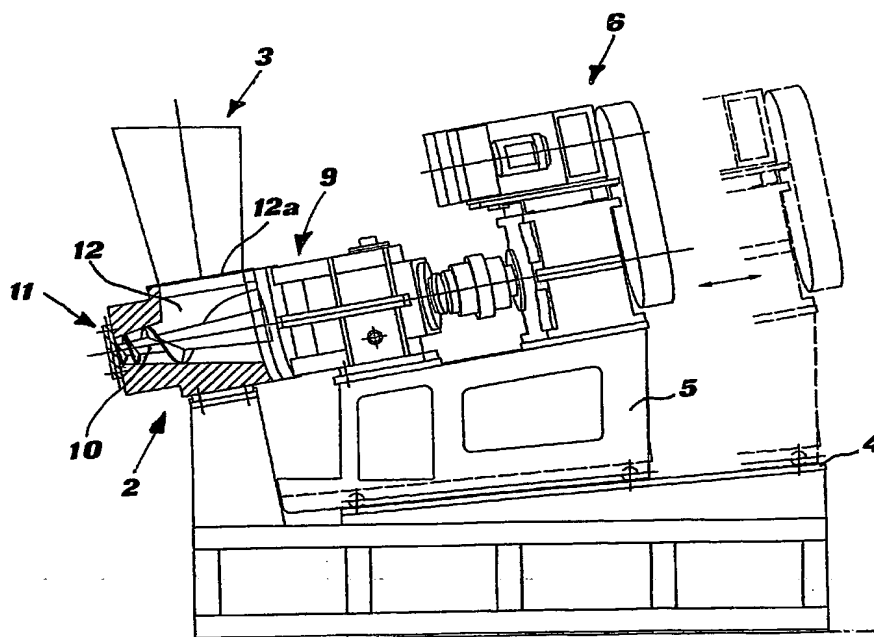
(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MACHINE FOR MIXING AND EXTRUDING RUBBER-BASED AND SILICONE-BASED PLASTIC MATERIALS AND METHOD THEREFOR



(57) Abstract: A machine for the mixing and extrusion of rubber-based and silicone-based plastic materials and method thereof is disclosed, comprising a dump extruder with conical converging twin screws (10) arranged in a batching chamber (12) in which the outlet of the dump extruder is temporarily closed by a removable blind flange (11), the batching chamber also acting as a compounding chamber.